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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/909,975	07/23/2001	Yukio Maki	57454-162	2289
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	T, WILL & EMERY	EXAMINER		
600 13th Street Washington, D	c, N.W. C 20005-3096	GEBREMARIAM, SAMUEL A		
			ART UNIT	PAPER NUMBER
			2811	
		DATE MAIL ED. 06/20/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No. Office Action Summary Continue Co		<i></i>		/5		N'
Period for Repty A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MALLING DATE of this communication appears on the cover she 1 with the correspondence address Period for Repty A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MALLING DATE OF THIS COMMUNICATION. THE MALLING DATE OF THIS COMMUNICATION. If the period for from may be available under the provisions of 3 (7 Rf. 1.136q). In several, however, may a reply be threafy filed sets 51/6 (MONTHS from the maling date of this communication. If the period for reply is specified above, the mark (100) says, a nephy value the state of the communication of the period for reply is specified shows. The mark (100) says, a nephy value and set of the communication of the period for reply is specified above, the mark (100) says, a nephy value and set of the communication of the period for reply is specified shows. The mark (100) says, a nephy value and set of the period for reply is specified of the communication. If the period for reply is specified shows the mark (100) says, a nephy value and set of the period of the communication. If the period for reply is specified shows the mark (100) says and period of the communication. If the period for reply is specified of the communication. If the period for reply is specified of the communication. If the period for reply specified of the communication. If the period for reply state (100) says and set of the second period of the communication. If the period for reply state (100) says and set of the second period of the communication. A possible of the second period of the communication of the second in accordance with the practice under Exparte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claim(s) is/are pending in the application. 4)	•1		Applicat	tion No.	Applicant(s)	
Samuel A Gebremariam 2811		,	09/909,9	975	MAKI, YUKIO	
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MALLING DATE OF THIS COMMUNICATION. Extensions of their next by exercisines of 3 / 2 FR 1.33(s). In no event, however, may a reply be timely filed after six (x) (x) MONTH(S) from the making date of this communication. If the period for reply is specified above, he maximum blakfurd period will supply the set of this (x) (x) MONTH(S) from the making date of this communication. If the period for reply is specified above, he maximum blakfurd period will supply the set of the communication for reply is specified above, he maximum blakfurd period will supply the set of the period of the reply is specified above, he maximum blakfurd period will supply the set of the second period for reply is specified above, he maximum blakfurd period will supply the set of this communication. If the period for reply is specified above, he maximum blakfurd period will supply the set of this communication. If the period is specified above, he maximum blakfurd period will supply the set of this communication of the second period for reply is specified above. He making date of this communication, even if timely filed, may reduce any sammed patient term adjustment. See 37 CFR 1.704(b). Status 1) ▼ Responsive to communication(s) filed on 12 March 2002. 2a) □ This action is FINAL. 2b) □ This action is FINAL. 2c) □ This action is FINAL. 2d) □ Claim(s) 1 = (si/are pending in the application. 4a) Of the above claim(s) is siare allowed. 6b) □ Claim(s) 1 = (si/are pending in the application. 4a) Of the above claim(s) is siare withdrawn from consideration. 2c) □ Claim(s) 1 = (si/are pelicted to by the Examiner. 4pplication Papers 9) □ The specification is objected to by the Examiner. 4pplication Papers 9) □ The drawing(s) filed on is siare allowed. 1c) □ The draw	1	Office Action Summary	Examine	er	Art Unit	
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 3 CFR 1.136(a). In no event, however, may a reply be timely filed shorts 18 (or MONTH'S from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period vall apply and will expire SX (or MONTH'S from the mailing date of this communication. Failuse to rignly whitin the set or extended period for reply will, by takend, cause the application to become ABARDONED OS USC 5 (133). Any reply received by the Office later than three monites after the mailing date of this communication, even if timely filed, may reduce any seared patient three allowed to the communication, even if timely filed, may reduce any seared patient three monites after the mailing date of this communication, even if timely filed, may reduce any seared patient to accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) is are allowed. 4) Claim(s) is/are allowed. 6) Claim(s) is/are allowed. 6) Claim(s) is/are objected to. 8) Claim(s) is/are objected to. 9) The specification is objected to by the Examiner. Application Papers 9) The proposed drawing correction filed on is/are: a accepted or b objected to by the Examiner. Application may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is/are: a accepted or b objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). 2 Certified copies of t						
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THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 3 CFR 1.18(g). In no event, however, may a reply be limely filed after SIX (8) MONITHS from the malling date of this communication. - If the period for eight specified above is less than this (90) days, a neply within the satutory minimum of thirty (30) days, and the six of the period for eight and above is less than thirty (90) days, a neply within the satutory minimum of thirty (30) days, a neply within the satutory minimum of thirty (30) days, a neply within the satutory minimum of the saturation of the saturati		• •	OR REPLY IS SET	TO EXPIRE 3 MO	NTH(S) FROM	
the period for reply specified above. The major maintaining of the period for reply is pecified above. The major major maintains a through replace to the processing of the period of reply is pecified above. The major major will apply an adjustant to become ABANDONED (\$B U.S. C. § 13). Failure to reply wall by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any saured patent term adjustment. See 37 CFR 1.794(b). Status 1) ■ Responsive to communication(s) filed on 12 March 2002. 2a) □ This action is FINAL. 2b) ■ This action is non-final. 3) □ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) ■ Claim(s) 1-6 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) □ Claim(s) is/are allowed. 6) ■ Claim(s) is/are allowed. 6) ■ Claim(s) is/are subject to restriction and/or election requirement. Application Papers 9) □ The specification is objected to by the Examiner. 10) □ The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) □ The proposed drawings correction filed on is: a) □ approved b) □ disapproved by the Examiner. 12) □ The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) ■ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ■ All b) □ Some * c) □ None of: 1. □ Certified copies of the priority documents have been received in Application No. in the proposed of the priority documents have been received in Application No. in application from the International Bureau (PCT Rule 17.2(a)). *See the attached detailed Office action for a list of the certified copies of the priority under 35 U.S	THE N	MAILING DATE OF THIS COMMUNION of time may be available under the provisions of	CATION. of 37 CFR 1.136(a). In no e			
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Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	1) X Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (P	TO-948) aper No(s)	5) 🔲 Notice of In	ummary (PTO-413) Paper No formal Patent Application (PT	·(s) · ·O-152)

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DETAILED ACTION

Election/Restrictions

1. Applicant's election without traverse of group I, claims 1-6 drawn to a semiconductor device in Paper No. 6 is acknowledged.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 3 and 4, are rejected under 35 U.S.C. 102(b) as being anticipated by Hashimoto et al., US patent No. 5,455,438.

Regarding claim 1, Hashimoto teaches a semiconductor device comprising: a semiconductor substrate 1 including an active region and an isolation region 2; and a gate electrode 18' formed on the active region with an insulating film 17 interposed between gate electrode and active region where the surface of the active region is entirely rounded so as to be inclined downward the isolation region (fig. 1).

Regarding claims 3 and 4, Hashimoto teaches the entire claimed structure of claim 1 above including an isolation insulating film 2 is formed in the isolation region, the isolation insulating film includes a bird's beak portion extending on the active region and the active region is covered with the bird's beak portion where the bird's beak portion has a larger thickness near the isolation region than in the center of the active region (fig. 1).

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Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 2 and 6, are rejected under 35 U.S.C. 103(a) as being unpatentable over Hashimoto in view of Ando et al. US patent No. 5,285,096.

Regarding claim 2, Hashimoto teaches substantially the entire claimed structure of claim 1 above except explicitly stating that the semiconductor device of claim includes SRAM and the SRAM includes an access MOS transistor and a driver MOS transistor.

It is conventional and is also taught by Ando to have an SRAM that includes a driver MOSFET and an access MOSFET (fig. 4).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to consider the memory cell and circuit area taught by Hashimoto as the access and driver portion of the MOSFET respectively.

Regarding claim 6, Hashimoto teaches substantially the entire claimed structure of claim 1 above except explicitly stating that the gate insulating film of the access MOS transistor has a larger thickness than the gate insulating film of the driver MOS transistor.

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Ando teaches a thicker gate oxide film 3b of the access MOSFET than the driver MOSFET gate oxide 3a (fig. 4).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to form a thicker gate oxide film for the access MOSFET than the driver MOSFET in order to ensure a high stability of the memory cell (column 3, lines 15-34).

Claim 5, is rejected under 35 U.S.C. 103(a) as being unpatentable over Hashimoto in view of Ando et al. US patent No. 5,285,096 and in further view of Kuriyama et al. US patent No. 5,945,715.

Regarding claim 5, Hashimoto teaches substantially the entire claimed structure of claim 1 above except explicitly stating that the access MOS transistor has a smaller channel doping depth than that of the driver MOS transistor.

Kuriyama teaches a semiconductor device with a memory cell part and peripheral circuit where the depth source/drain region is reduced which in turn implies the depth of the channel region.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have the channel doping depth in the access MOS region smaller than driver MOS transistor taught by Kuriyama in order to reduce the width of the isolation region (fig. 1, column 4, lines 57-67).

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. References C and D are cited as being related to SRAM.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Samuel Admassu Gebremariam whose telephone number is 703 305 1913. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Thomas can be reached on 703-308-2772. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7722 for regular communications and 703-308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

Samuel Admassu Gebremariam May 3, 2002

Steven Loke